

Title (en)
ROTARY CUTTING TOOL

Title (de)
ROTIERENDES SCHNEIDWERKZEUG

Title (fr)
OUTIL DE COUPE ROTATIF

Publication
EP 2703139 A4 20141022 (EN)

Application
EP 12777755 A 20120404

Priority
• JP 2011099557 A 20110427
• JP 2012002356 W 20120404

Abstract (en)
[origin: EP2703139A1] Provided is a rotary cutting tool that can increase the overall flexural rigidity of blades used therein, even with blades having small thicknesses. A cutter head for woodworking has fitting grooves formed at circumferential four positions on an outer peripheral side of a body. The fitting groove is curved in small measure in an arc shape in a direction opposite to a direction of rotation of the body. The fitting groove is symmetric on both sides of the body. The fitting grooves are each mounted with a blade and a wedge bar. The blade is a long and thin plate having a nearly rectangular shape and elastically deformable. The blade is made of a steel material or a cemented carbide and about 0.5 mm in thickness. The blade is curved in an arc shape that corresponds to the shape of the fitting groove in a direction opposite to a direction of rotation R and then fixated in the curved state. A twist angle representing an angle of inclination of a cutting edge in each blade from a shaft center on an outer peripheral surface of the body is a negative twist angle that changes in a curve on the side of one end surface of the body but is a positive twist angle that changes in a curve on the side of the other end surface of the body.

IPC 8 full level
B27G 13/02 (2006.01); **B23C 5/04** (2006.01); **B27G 13/04** (2006.01)

CPC (source: EP)
B27G 13/02 (2013.01); **B27G 13/04** (2013.01)

Citation (search report)
• [XY] JP S4815493 U 19730221
• [Y] US 2011044773 A1 20110224 - SEIDEL JUERGEN [DE], et al
• [Y] FR 2947193 A1 20101231 - GUILLEN OUTILS TECH [FR]
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• [X] JP H06304907 A 19941101 - KANEFUSA KNIFE & SAW
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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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